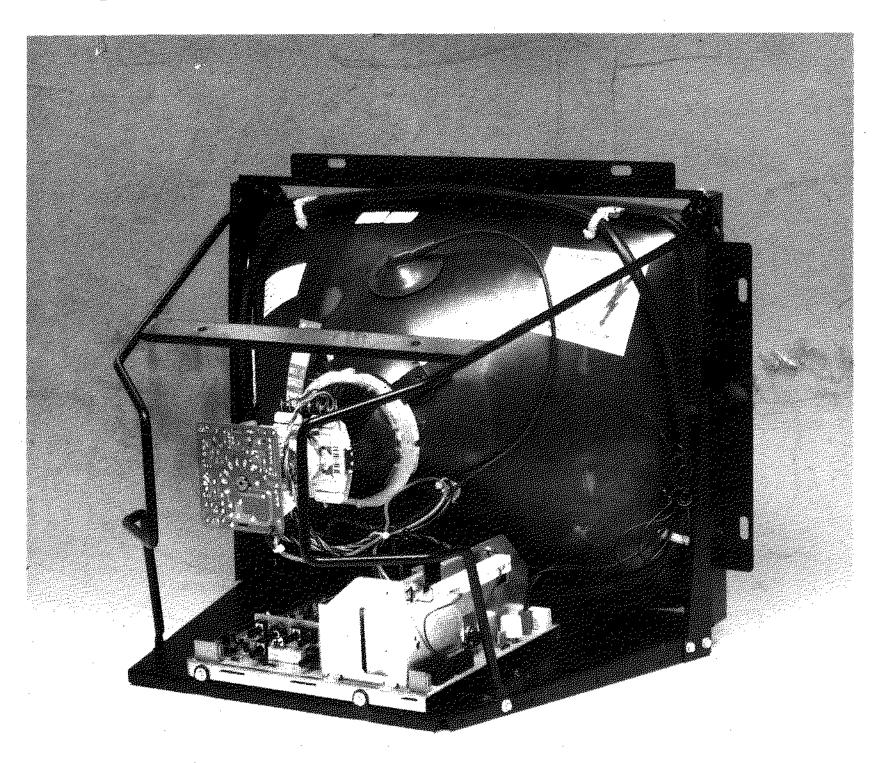
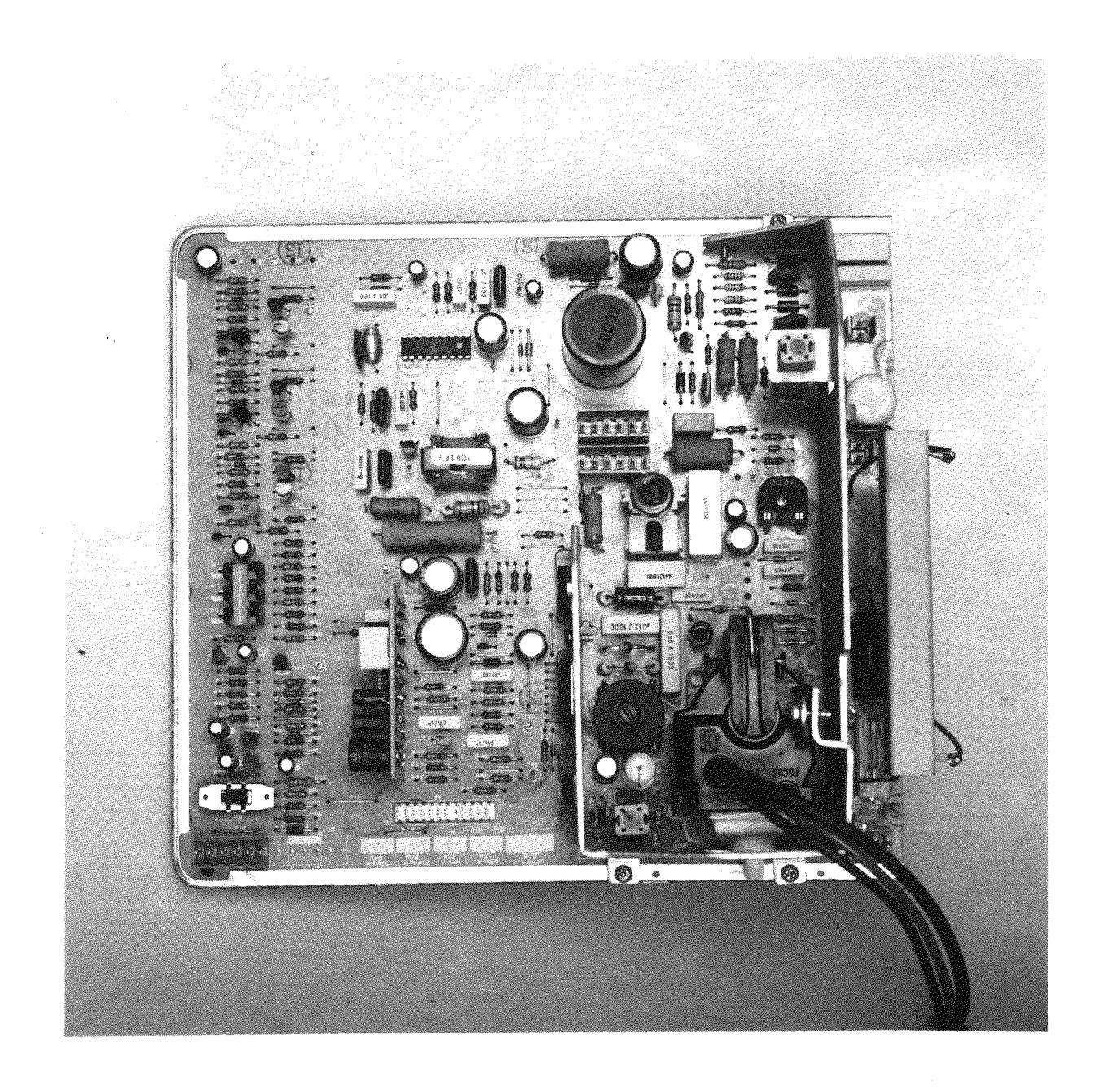


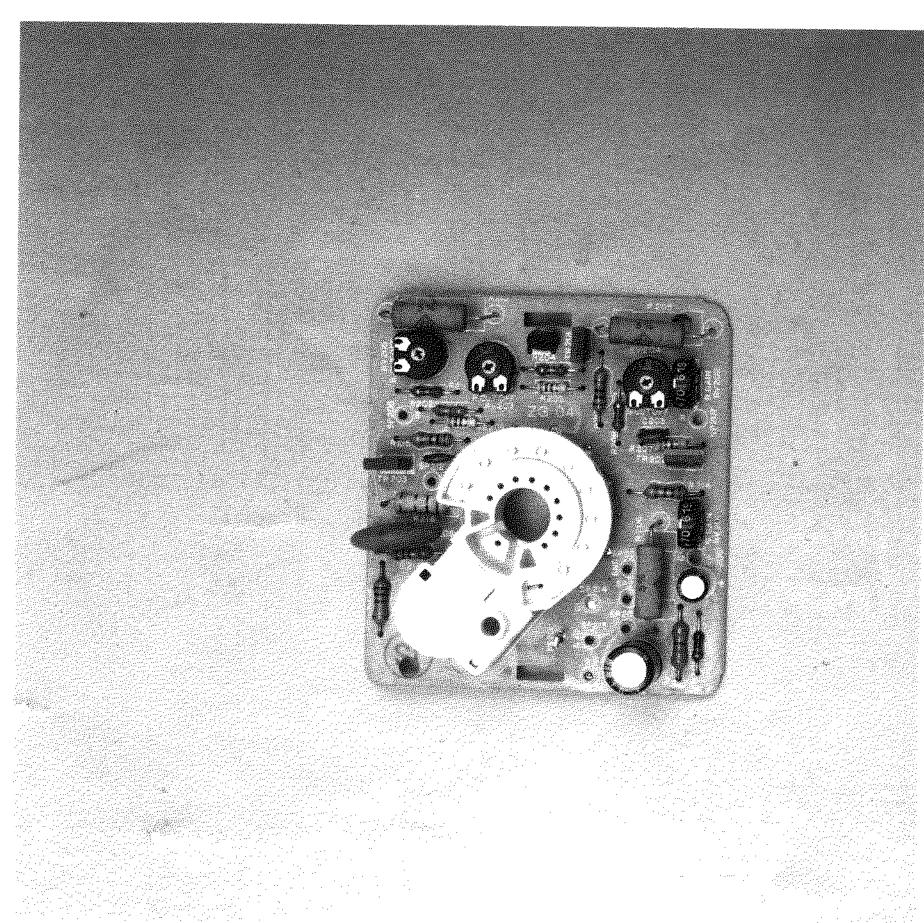
open frame colour monitor



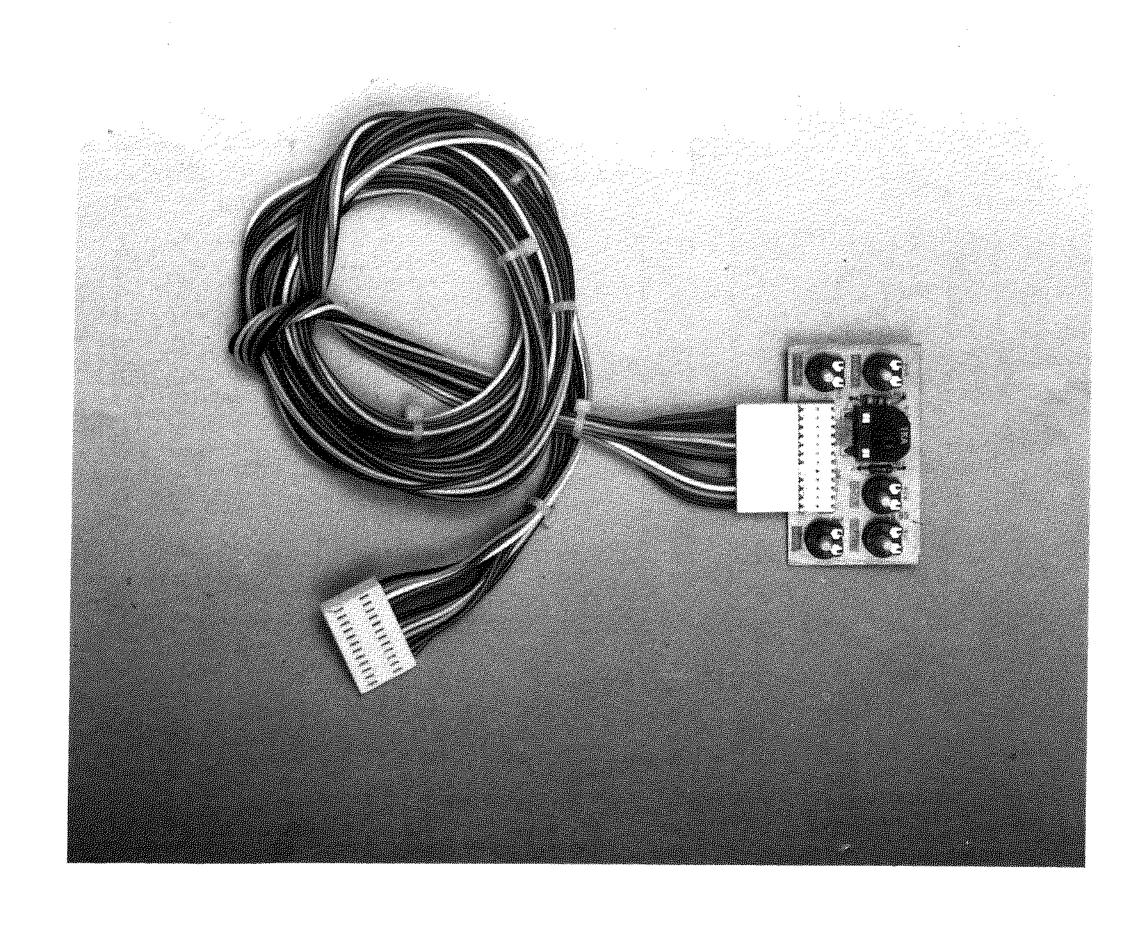
NFORMAZIONI PRELIMINARI



C. R. T. SOCKET ASSEMBLY



ADJUSTMENT BOARD AND EXTENTION CABLE



HANTAREX® MIC 9000

open frame colour monitor

ADVANCE INFORMATION

COMPATIBILITY

The MTC 9000 has been created bearing in mind its numerous predecessor that are still in daily service, so that its technical specification, its connexions, and its mechanical fixing points are all totally compatible with its antecedants, thus making possible any variation of "crosses" with chassis, picture tubes and metal structures of the old MTC 900 and its derivatives.

INTRODUCTION

The principal new features of the MTC 9000 are as follows:

• All the controls which directly affect the display, horizontal frequency, vertical frequency, vertical amplitude, horizontal amplitude, horizontal phase and vertical shift, are mounted on a small printed circuit board connected to the main board by a connecting cable.

The monitor is supplied complete with a connecting cable 1.5 metres long, which permits the remote mounting of

the control board in the most convenient position for any particular application.

This "remote" feature is exclusive to the Hantarex MTC 9000.

• Addition of two connectors to each deflexion yoke with inverted connexions which, by choice of connector, permits the easy inversion of the image both vertically and horizontally for certain applications.

• Introduction of a novel circuit into the power supply, which, at an excessive drop in supply voltage, transforms the stabilizer circuit into an anti-ripple circuit so permitting the use of the monitor outside the limits of stabilization.

• Use of a special three-position switch in the video input circuit using close tolerance resitors, permitting the monitor to be connected to input signals varying between 2 and 5 V p.p. without the introduction of tracking errors, which would otherwise cause undesirable colour changes.

• Introduction of a new integrated circuit (TDA 1670) for vertical deflexion which permits the achievement of a short vertical fly-back time (0.9 ms), and extends the use of the monitor where a short vertical blanking period is required.

• Introduction of a new integrated circuit in the horizontal oscillator synchronization circuit, which, among other things, provides for more accurate intervention of the x-ray protection circuit as required by the principal international safety standars, such as F.D.A., the Federal Drug Administration.

TECHNICAL SPECIFICATION

TUBE SIZE	14", 16" and 20"	
POWER REQUIRED (excluding degaussing)	a.c. current* Voltage Frequency r.m.s. Current	115-142 V a.c. 50-400 Hz at lb 0 = 0.3 A at lb 1 mA, = 0.7 A
:	d.c. current** Voltage Current	155-200 V d.c. at lb 0 = 0.3 A at ib 1 mA, = 0.7 A

POWER REQUIRED (degaussing)	Voltage Frequency Current	220 V a.c. ± 20% 50-60 Hz 4 A for approx 0.2 s
EARTH SAFETY CONNEXION	This connexion must separable from the e	be made to the metallic structure of the monitor which is no electrical earth.
SYNC. AND DEFLEXION	Sync. signals Composite: Amplitude Polarity Timing Separate: Amplitude Polarity H width H Freq. V width V Freq. H Phase V Linearity H Linearity H Amplitude	1.5 - 5 V p.p. positive/negative (switchable by switch on p.c.b.) conforms to t.v. standards ± 10% 1.5 - 5 V p.p. positive/negative (switchable simultaneously*** by switch on p.c.b.) 1-10 us 15-16 kHz 80-1000 us 45-70 Hz with standard European t.v. signals the H phase contropermits a displacement of the image (of nominal ampl. of ± 4 cm errors < 3% errors < 3% with standard European t.v signals the H ampl. permits

active video of 16-19 ms. *The polarity of the separate synchronizing pulses can be different (between H and V) only by modification of the circuit, substituting the switch by a bridge.

VIDEO SIGNAL	Туре	RGB anal/TTL compat.	
	Polarity	positive, white (high-level)	
	Amplitude	2-5 V p.p. (by use of input switch)	
	Bandwidth	10 MHz at 40 V pp.	
	Rise/Fall Time	< 50 ns at 70 V p.p.	

NOTE (a): The MTC 9000 is provided with both horizontal and vertical blanking signals, which permits the use of the monitor with signals without blanking.

⁽b): The three RGB video amplifiers are d.c. coupled: there is thus no lower limit to the pass band.

PROTECTION CIRCUITS

The MTC 9000 is provided with the following protection circuits:

a) Protection against excessive x-ray radiation.

This circuit is obligatory in many countries, and ensures that, with the worst cathode-ray tube and with a breakdown in any part of the monitor, x-ray radiation will not exceed 0.5 mR/h. This is the international safety limit; however, in practice, statistical measurements made on Hantarex production show that radiation never exceeds 0.1 mR/h.

b) Protection of the Power Supply Unit.

This circuit protects the power unit from accidental short-circuit which could happen during installation or adjustment of the monitor.

DEGAUSSING CIRCUIT:	Demagnetizing Time between successive	time 5 s	•
	Demagnetizations	< 30 min.	

NOTE:

• The monitor must be left switched-off between successive de-magnetizations.

• Normally the degaussing circuit operates automatically each time it is switched on; there is available, on request, an accessory comprising a connector, a cable and a push-button, which provides for manual operation of the de-gaussing circuit.

BEAM CURRENT LIMITER:	Level of limit	1 mA approx.	
FUSES:	F1 F2	2 AT (slow-blow) 3 AT (slow-blow)	

NOTE:

Fuse F1 protects the whole monitor with the exception of the de-gaussing circuit. Fuse F2 protects the de-gaussing circuit only.

INSTALLATION

a) Connect to the power source as follows via connector CC:

Contacts 1-2 to an isolated source (see note) of alternating current at 128V, 50-400 Hz capable of supplying 100VA. Alternatively one may use a direct current supply in the range 155-200 V, irrespective of polarity, subject to its being isolated from chassis or earth, as, for example, one of the Hantarex series US 200/US 250/US 300. (see the note) Contacts 3-4 to the mains supply at 220-240 V a.c., 50-60 Hz.

b) Connect to the signal source as follows via connector CA:

Contact 1 positive video signal BLUE Contact 2 positive video signal GREEN Contact 3 positive video signal RED Contact 4 common signal earth (GND) (V SYNC) Contact 5 vertical sync. (or no connexion if using composite sync.) "(H SYNC)

Contact 6 horizontal or composite sync

Important

The use of an isolating transformer is obligatory; it needs a power capacity of at least 100VA and to be constructed to meet local safaty regulations. Hantarex accepts no responsability for any harm to persons or property resulting from non-observance of this warning.

Important

It is obligatory that the direct current source shall be «floating», i.e. without any reference to earth or chassis, such as in the case of the Hantarex US 200/US 250/US 300.

- c) Connect the Earth wire to the metal structure as prescribed by safety regulations.
- d) Set the sync. selector switch (SW4) to adjust the monitor for the type of synchronizing signals available; SW4 functions on both composite sync., and on separate sync. (simultaneously).
- e) Set the input selector SW3 to adjust the monitor to accept the level of video signal available; the monitor functions in the range 1.5 - 5 V p.p.
- 1) If necessary is possible to invert the image (vertically and horizontally) by inserting the connector to the deflexion yoke in position CL.
- g) If it is necessary to adjust the controls on the removable control panel (either with the panel inserted in the chassis or connected via its extension lead) the image characteristics are optimized as follows:

H freq. - horizontal scan frequency

Adjust within the range 15.625 + 1.03 kHz to obtain the most stable display.

V freq. - vertical scan frequency

Adjust from the condition where the image scrolls upwards to obtain a stable display.

V ampl. - vertical scan amplitude

Adjust for optimum display height.

Hampl.- horizontal scan amplitude

Adjust for optimum display width.

H phase - horizontal phase

Adjust for correct horizontal positioning of the display.

V shift - vertical shift

Adjust for correct vertical positioning of the display.

regulation or control	test signal	measurement conditions	point of measurement	point of regulation	value
monitor supply voltage	grid		TP10		130 ± 3% V d.c.
horiz. synchronization	grid	set SW4, bridge TP6 & TP7	screen	RV5	adjust to obtain most stable display unbridge TP6 & TP7
vert. synchronization	grid	check 50 & 60 Hz	screen	RV1	adjust to stabilize upward scrolling display
horiz. oscillator supply voltage	grid		TP12		12 v ± 5% V d.c.
vert. oscillator supply voltage	grid		TP13		26 ± 5% V d.c.
video amplifier supply voltage	grid	- -	TP1		24 ± 5% V d.c.
video output stage supply voltage	grid		SP11		190 ± 5% V d.c.
diode modulator	grid	horizontal amplitude RV4 set to minimun	TP9	В3	adjust for maximun *
G2 voltage	grey scale	·	p.c.b. ZG	TH2 'screen'	set for 600 V d.c. (100:1 probe) **
black level	grey scale	set RV203, 204 & 205 to min & RV 201 & 202 ho		RV7	adjust to make the darkest band disappear and the adjacent band just visible
c.r.t. cut-off	none	faintly illuminated screen by G2	screen	RV203, 204 & 205	eliminate the dominant colour by adjustment of the other two colours, adjusting brightness
white level	white field		KR & KG p.c.b. ZG	RV 201 & 202	adjust the level of green and red cathodes to same as blue
focus	dot	medium brightness	screen	TH2 focus	adjust for best focus
horizontal linearity	grid		screen	B1	adjust width of first square equal to last

^{*}The maximun voltage at TP9 can vary between approximately 34 and 50 V d.c. according to the type of c.r.t. used.
**The position of the shaft of G2 is marked with a reference point.



MONITOR MTC9000 14,16,20" PARTS LIST

MÁIN	P.C.B. ASSEMBLY cod	e 62007744	
ODE	DESCRIPTION	REF. NO.	QTY
20110300	ZENER DIODE 1.3W ZY100	ZD2	1
20150150	DIODE BY584 (BY184)	D27 D13	1
20150170 20150210	DIODE BYV95/C-600 DIODE BY228	D12	1
20410100	TRANSISTOR BDX53A	TR17	1
20 43 0320 20430470	TRANSISTOR BU508A TRANSISTOR TIPL762	TR15 TR20	1
20430470 20430570	TRANSISTOR TIPE762 TRANSISTOR BU801	TR19	i
20670270 20670 95 0	INTEGRATED CIRCUIT TDA2585 INTEGRATED CIRCUIT TDA1670A	IC2 IC1	1
21 000037	PHILIPS PTC 2322.662.96009 220V	PTC1	1
21313901	FIRE RETARDANT RESISTOR 3.9E 5% 1/2W	R94	1
21 416800 21 42 1500	METAL OXIDE RESISTOR 6.8E 5% 1W METAL OXIDE RESISTOR 15E 5% 1W	R120 R81	1
21 452200	METAL OXIDE RESISTOR 22K 5% 1W	R107	1
21454700	METAL OXIDE RESISTOR 47K 5% 1W METAL OXIDE RESISTOR 1K 5% 2W	R72-119 R73-82	2
:1541001 :1621000	METAL OXIDE RESISTOR 10E 5% 3W	R111-112	2
1651200	METAL OXIDE RESISTOR 12K 5% 3W	R101	1
17 44700 21 4220 0	METAL OXIDE RESISTOR 4.7K 10% 4W METAL OXIDE RESISTOR 2.2K 5% 5W	R95 R74	1
2451000	WIREWOUND RESISTOR 10K 10% 9W	R97	i
2712200	WIREWOUND RESISTOR 2.2E 10% 17W	R99	1
2 93330 0 3062203	AXIAL WIREWOUND RESISTOR 330E 10% 30W CARBON TRIMMER 220K HORIZ, PT10V	R105 RV7	1
4334700	RADIAL ELECT. CAPACITOR 470uF 16V RADIAL ELECT. CAPACITOR 1000uF 16V	C16	i
4341000	RADIAL ELECT. CAPACITOR 10000F 16V	C15	1
	RADIAL ELECT. CAPACITOR 4.7uF 50V SM-BP (P) 10 RADIAL ELECT. CAPACITOR 1006uF 35V	0X12 C42 C57	1 1
4611000	RADIAL ELECT. CAPACITOR 1uF 69V		į
4822201	RADIAL ELECT. CAPACITOR 1uF 63V RADIAL ELECT. CAPACITOR 22uF 160V RADIAL ELECT. CAPACITOR 22uF 200V RADIAL ELECT. CAPACITOR 470uF 200V	C34	1
4922200 493 4710	RADIAL ELECT. CAPACITOR 22UF 200V	C53	1
144703	FILM CAPACITOR 4.7nF 73V 5%	C28	i
362200	FILM CAPACITOR 4.7nF 73V 5% FILM CAPACITOR 1.60 220nF 160V 10% P10 FILM CAPACITOR 1.60 100nF 250V 10% P10	C47	1
5461010 5464710	FILM CAPACITOR 1.50 100nF 250V 10% P10 FILM CAPACITOR 1.76 470nF 250V 10% p22.5	C43 C37	1
5651000	FILM CAPACITOR 1.76 470nF 250V 10% p22.5 FILM CAPACITOR 1.60 10nF 630V 10% P10 FILM CAPACITOR 1.73 12nF 630V 10% P15	C39-46	2
651200	FILM CAPACITOR 1.73 12nF 630V 10% P15	C41	1
744710 7 468 02	FILM CAPACITOR 1.50 10nF 630V 10% P10 FILM CAPACITOR 1.73 12nF 630V 10% P15 FILM CAPACITOR 1.73 4.7nF 1500V 5% P15 FILM CAPACITOR 1.73 6.8nF 1500V 5% P22.5 FILM CAPACITOR 1.58X 10nF 250VCA 20% P15 FILM CAPACITOR 1.58X 100nF 250VCA 20% P15 CERAMIC CAPACITOR -20 +50% 2.2nF 500V DRIVER TANSFORMER PHILIPS AT4043/01 COIL 50MH UTF48 EHV TRANSFORMER ELDOR 1105.0628 BRIDGE COIL UTF48	C40	1
751002	FILM CAPACITOR 1.58X 10nF 250VCA 20% P15	C52	1
761002	FILM CAPACITOR 1.58X 100nF 250VCA 20% P15	C48 C40-50-51-55	1
422608 010590	DRIVER TANSFORMER PHILIPS AT4043/01	∪-a- 30-31-33 TH1	1
021190	COIL 50MH UTF48	B 2	1
021200	EHV TRANSFORMER ELDOR 1105.0628	TH2	1
021210 025170	LINEARITY COIL UTF67	81	1
100000	COIL 50MH UTF48 EHV TRANSFORMER ELDOR 1105.0628 BRIDGE COIL UTF48 LINEARITY COIL UTF67 TIME-DELAY FUSE 2A TIME-DELAY FUSE 3.15A FUSE HOLDER OMEGA C10 6A 250V CP525 SOAPSTONE INSULATOR 8 M.M. SWITCH PROMIMET TYPE 4002/CS	. 9 F1	1
100009	TIME-DELAY FUSE 3.15A	FZ	1
9100150 9 3000 10	SOAPSTONE INSULATOR 8 M.M.		24
0000081	SWITCH PROMIMET TYPE 4002/CS	SW4	1
0000360 1010061	COMMUTATOR PHILIPS 242213680023 FASTON LUG M.FACO TE115 2.8X0.8	FS1	3 1
1010061 1023352	AMP CONNECTOR MOD. I-2 D280609/1	CD-CE	2
023354	AMP CONNECTOR MOD. I-4 D280610/1	CC	1
023356	AMP CONNECTOR MOD. I-6 D280611/1	CL-CM-CA CH	3 1
1075080 1075080	5 WAY MALE CONNECTOR PRESSAC UTH1858 11 WAY MALE CONNECTOR PRESSAC UTH1861	•	1
0029066	SELF TAPPING SCREW 2.96X6.5 6954-71 B Zn	•	9
038087	CAP SELF TAPPING SCREW 3.9X8.5 Zn		1
:000050 1000011	WASHER UNI6583-68 D4.3 D12\$1.5 Zn SPRING X TO220 UTH38		4
3000100	SPRING X RESISTOR 30W UTH635		2
110140	RESISTOR BRACKET UTH601		2
1116100 1116111	HEATSINK X MTC9000 UTH1569 MTC9000 MAINFRAME UTH1129		1
116500	HEATSINK GROUNDING LUG UTH1854		2
423560	AMPLITUDE COIL BRACKET UTH1848 COMMUTATORS BRACKET UTH1843		1
1423570 1424220	TO3 INSULATOR UTH1986		2
1424230	TO220 INSULATOR UTH1887		1
1424310 1434640	INTEGRATED CIRCUIT INSULATOR UTH2047 MTC9000 MAIN PROTECTION UTH2044		1
1424640 1874710	SIGNALS INPUT LABEL 9000 EUROPA UT312		i
874730	FUSE LABEL 9000 EUROPA UT314		1
875320 001150	MAIN INPUT LABEL 9000 EUROPA UT355 WIRING ASSEMBLY MTC9000 EUROPA UTC117		1
1001150 1 00508 0	30W RESISTOR WIRING MTC9000 UTC526		i
400469	TRANSISTOR BC638	TR14-18-22	3
401029 401039	TRANSISTOR BC5468 TRANSISTOR BC5568	TR2-3-5-6-8-9-10-13 TR1-4-7-11-12-16	8 6
146103 9 1430219	TRANSISTOR 8F422	TR21	1
1324709	RADIAL ELECT, CAPACITOR 47uF 16V P5	C6-14	2
1421008 1524700	RADIAL ELECT. CAPACITOR 10UF 25V P5	C17-18-19-20-35-58 C59	6 1
452470 9 4531009	RADIAL ELECT. CAPACITOR 47uF 35V P5 RADIAL ELECT. CAPACITOR 100uF 35V P5	C8 C28	1
4611009	RADIAL ELECT. CAPACITOR 1uF 63V P5	C22-23	2
1811009	RADIAL ELECT. CAPACITOR 1uF 160V P5	C56	1
4911009 5161019	RADIAL ELECT. CAPACITOR 1uF 200V P5 FILM CAPACITOR 1.85 100nF 63V 5% P5	C45 C12-13	1 2
516101 9 5163319	FILM CAPACITOR 1.85 100nF 63V 5% P5	C12-13	1
5244719	MYLAR CAPACITOR 4.7uF 100V 10% P5	C32	1
5251029	MYLAR CAPACITOR 10nF 100V 10% P5	C24-25 C26-31	2
5261009 5262219	MYLAR CAPACITOR 100nF 100V 10% P5 FILM CAPACITOR 22.365 220nF 100V 10% P5	C26-31 C11-27-30-33	4
· · · · · ·		•	3
215109	CERAMIC CAP, NPO 15pF 50V P5 RTHE40SKCH150J CERAMIC CAP, NPO 100pF 50V P5 RTHE80SKCH101		3

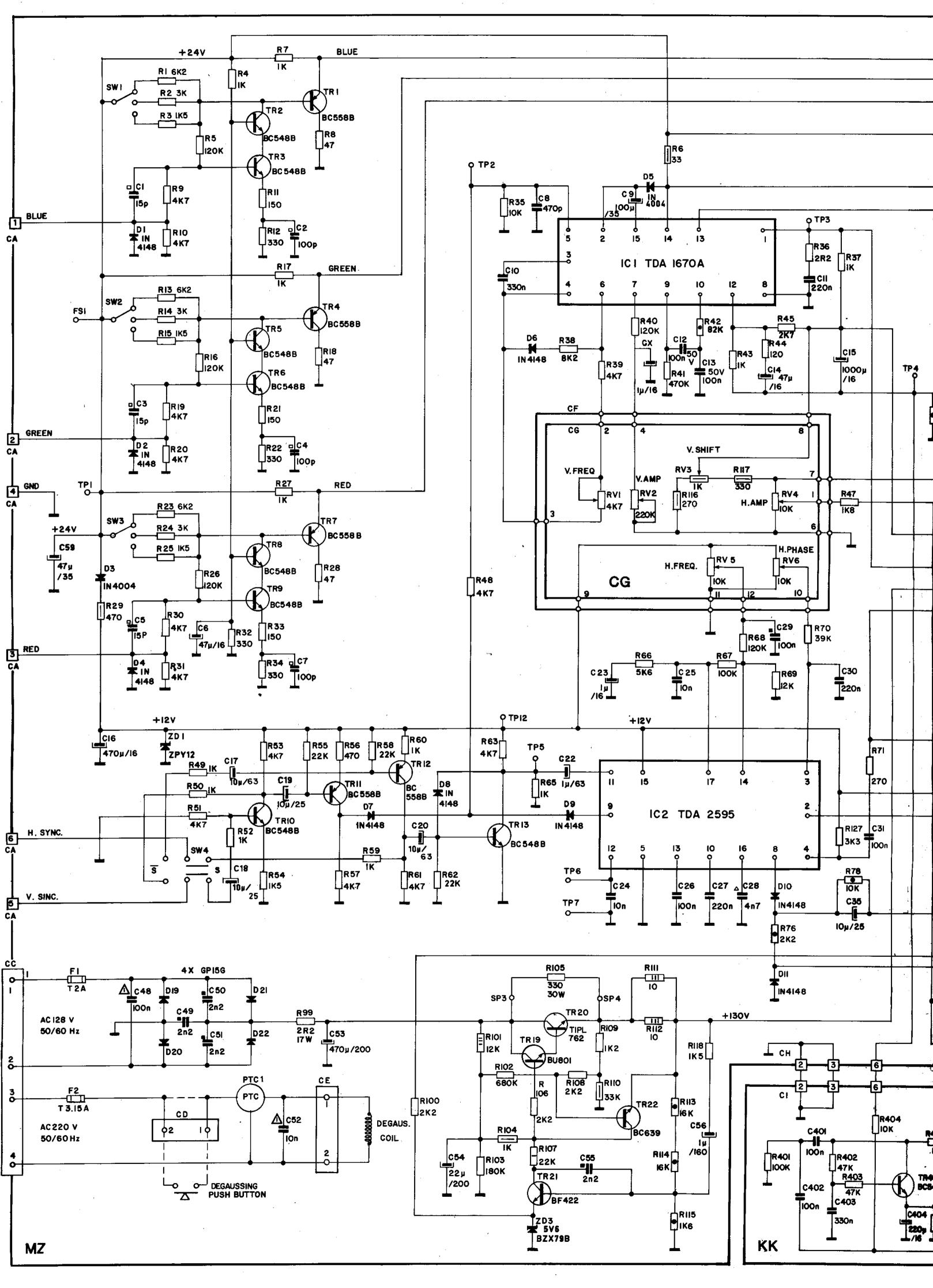
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0110100	ZENER DIODE 1.3W ZPY12	D11-25-26 ZD1	11
0110600	ZENER DIODE 2% BZX79 B5V6	ZD3	i
0130060	DIODE BAV20	D16-28	2
0150004	DIODE 1N4004	D3-5-24	3
01 5046 0	DIODE BYD33G	D14-15-17-18-23	5
0150460	DIODE GP15G	D19-20-21-22	4
1211801	METAL LAYER RESISTOR 1.8E 1% 1/4W 180PPM	R46	1
1212200	CARBON RESISTOR 2.2E 5% 1/4W	R36	1
1224700			4
			1
			3
			, '
1241000	CARBON RESISTOR IK 3% 1/444		
1241200	CARRON RESISTOR 1 9K 49L 1/dW		12
			4
			1
			1
			4
1242202			1
1242700	CARBON RESISTOR 2.7K 5% 1/4W	R45	1
1243000	CARBON RESISTOR 3K 5% 1/4W	R2-14-24	3
1243300	CARBON RESISTOR 9.9K 5% 1/4W	R127	1
1244700	CARBON RESISTOR 4.7K 5% 1/4W	R9-10-19-20-30-31-3	38
		48-51-53-57-61-63-9	16 14
12 4560 0	CARBON RESISTOR 5.6K 5% 1/4W	R66	1
1246200	CARBON RESISTOR 6.2K 5% 1/4W	R1-13-23	3
1246600	CARBON RESISTOR 6.8K 5% 1/4W	R86-88	2
1248200	CARBON RESISTOR 8.2K 5% 1/4W	R98	1
1251000	CARBON RESISTOR 10K 5% 1/4W	R35-85-87-121	4
1251002		–	1
			2
			3
	•		1
			9
			1
			11
			5
		· · · · · · · · · · · · · · · · · · ·	1
			i
			9
	CARRON RESISTOR SBOK 5% 1/4W		1
	CARRON RESISTOR 33E 5% 1/2W	R6	i
1324700	***************************************	R126	i
1334700	CARBON RESISTOR 470E 5% 1/2W	R29	1
1341000	CARBON RESISTOR 1K 5% 1/2W	R104	1
1342200	CARBON RESISTOR 2.2K 5% 1/2W	R88	1
1351601	METAL LAYER RESISTOR 16K 1% 1/2W 100PPM	R119-114	2
1953900	CARBON RESISTOR 39K 5% 1/2W	R110	1
1362700	CARBON RESISTOR 270K 5% 1/2W	R90	1
1372202	METAL LAYER RESISTOR 2.2M 5% 1/2W VR37	R77	1
0144811	MAIN PRINTED CIRCUIT BOARD MTC9000 MZ07		1
.			•
	•		1
CRT	SOCKET ASSEMBLY code	62007704	1
ODE	DESCRIPTION	REF. NO.	QTY
	0150460 0150460 0150460 1211801 1212200 1231200 1231200 1231500 1233300 1234700 1241000 1241500 1241601 1241800 1242202 1242700 1242202 1242700 1243900 1243900 1243900 1246200 1246200 1246200 1251000 1251000 1251000 1251000 1251000 1251000 1253900 126390 126390 126390 126390 126390 126	DIODE BYD39G DIODE GP13G 1211801 METAL LAYER RESISTOR 1.8E 1% 1/4W 100PPM METAL LAYER RESISTOR 2.2E 5% 1/4W CARBON RESISTOR 47E 5% 1/4W 1231200 CARBON RESISTOR 120E 5% 1/4W 1231200 CARBON RESISTOR 120E 5% 1/4W 1231200 CARBON RESISTOR 120E 5% 1/4W 1232700 CARBON RESISTOR 120E 5% 1/4W 1232700 CARBON RESISTOR 300E 5% 1/4W 1234700 CARBON RESISTOR 300E 5% 1/4W 1241000 CARBON RESISTOR 1 5% 5% 1/4W 1241000 CARBON RESISTOR 1 5% 5% 1/4W 1241500 CARBON RESISTOR 1 5% 5% 1/4W 1241500 CARBON RESISTOR 1 5% 5% 1/4W 1241500 CARBON RESISTOR 1 5% 5% 1/4W 124200 CARBON RESISTOR 5 5% 5% 1/4W 124200 CARBON RESISTOR 6 5% 5% 1/4W 124200 CARBON RESISTOR 6 5% 5% 1/4W 124200 CARBON RESISTOR 6 5% 5% 1/4W 1251000 CARBON RESISTOR 6 5% 5% 1/4W 1251000 CARBON RESISTOR 6 5% 5% 1/4W 1251000 CARBON RESISTOR 6 5% 5% 1/4W 1251200 CARBON RESISTOR 1 6% 5% 1/4W	DIODE BYD39G DIODE GYD39G DIODE GYD39G DISD480 DIODE GYD39G DI211801 METAL LAYER RESISTOR 1.8E 1% 1/4W 100PPM DI212200 CARBON RESISTOR 47E 5% 1/4W DI212200 CARBON RESISTOR 120E 5% 1/4W R31 DI21231500 CARBON RESISTOR 150E 5% 1/4W DI21231500 CARBON RESISTOR 150E 5% 1/4W DI21231500 CARBON RESISTOR 150E 5% 1/4W DI21233300 CARBON RESISTOR 150E 5% 1/4W DI21233300 CARBON RESISTOR 47DE 5% 1/4W DI2123300 CARBON RESISTOR 150E 5% 1/4W DI2123300 CARBON RESISTOR 150E 5% 1/4W DI2123300 CARBON RESISTOR 150E 5% 1/4W DI2124100 CARBON RESISTOR 150E 5% 1/4W DI2124200 CARBON RESISTOR 22E 5% 1/4W DI2124200 CARBON RESISTOR 22E 5% 1/4W DI2124200 CARBON RESISTOR 22E 5% 1/4W DI2124200 CARBON RESISTOR 250E 5% 1/4W DI2124200 CARBON RESISTOR 250E 5% 1/4W DI2124200 CARBON RESISTOR 250E 5% 1/4W DI212400 CARBON RESISTOR 350E 5% 1/4W DI212400

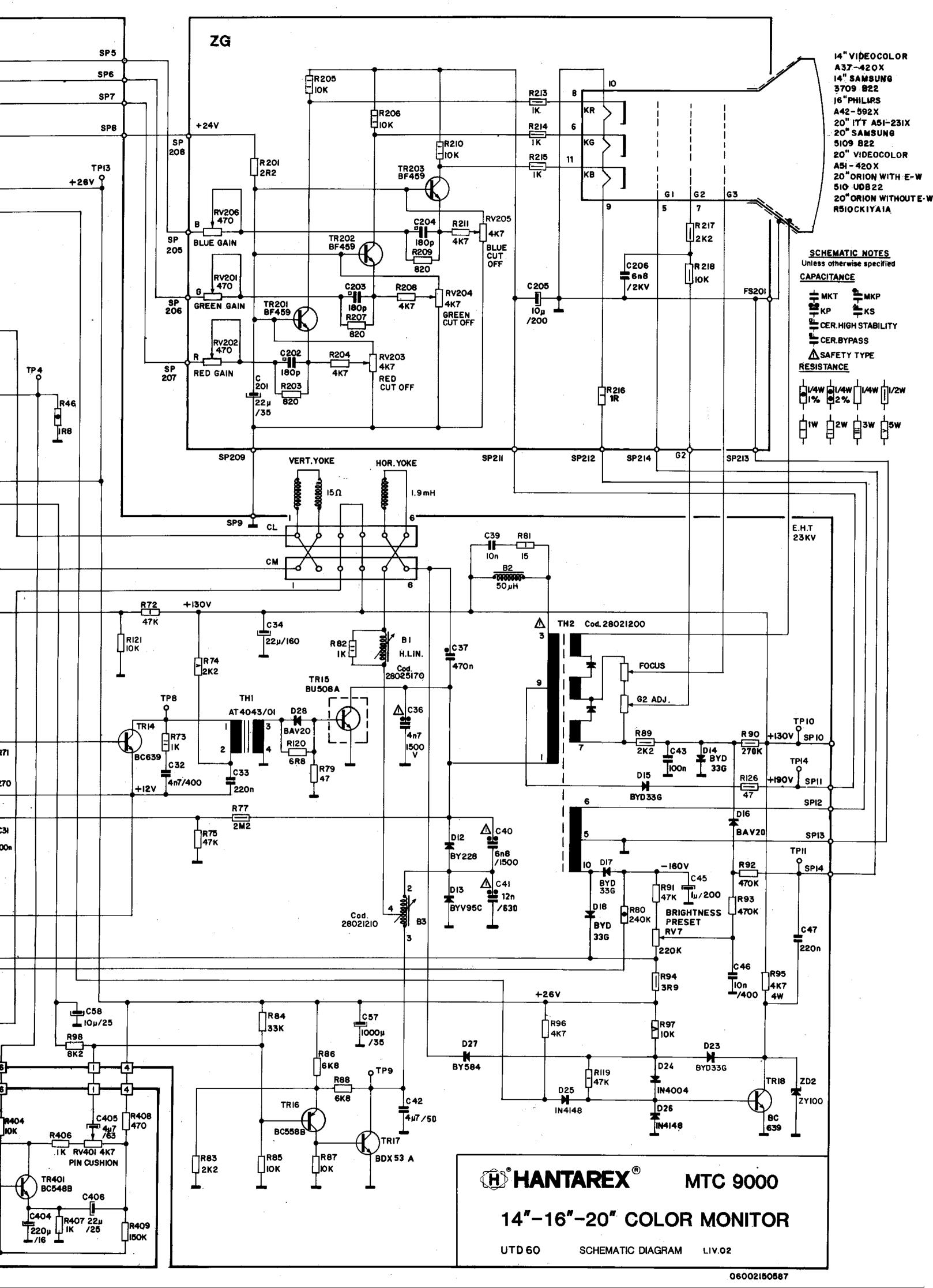
CODE	DESCRIPTION	REF. NO.	QTY
20420110	TRANSISTOR BF459	TR201-202-203	3
21411000	METAL OXIDE RESISTOR 1E 5% 1W WK4	R216	1
21551000		R205-206-210	3
23034706		RV201-202-210	3
2 3044 700	• • • • • • • • • • • • • • • • • • • •		3
24921003		C205	1
26468720	CERAMIC CAPACITOR 507.6 5.8nF 2KV 20%	C206	1
29300010	SOAPSTONE INSULATORS 8 M.M.		6
34010061	• • • • • • • • • • • • • • • • • • • •	F\$201	1
340206 10	• • • • • • • • • • • • • • • • • • • •		1
5042009 0	TIE 20-0875-1100 L=103		1
50429440	HEXAGONAL SHAFT PHILIPS 822241771060		3
538401 8 0	SOCKET SHIELDING 8000 EUROPA UTH1852		1
61002270	SOCKET WIRING ASSEMBLY MTC800/E UTC241		1
61005060	•••••		1
24522209	RADIAL ELECT. CAPACITOR 22uf 35V P5	C201	1
26318109	CERAMIC CAP, 10% 180pF 50V P5 RTHE40SKYB181K	C202-203-204	3
21212200	CARBON RESISTOR 2.2E 5% 1/4W	R201	1
21238200		R203-207-208	3
21244700		R204-208-211	3
21341000		R213-214-215	3
21342200		R217	1
21351000		R218	1
50144841	CRT SOCKET P. C. B. MTC8000 ZG 06		1

EAST	-WEST P.C.B. ASSY co	ode 6	2008060
CODE	DESCRIPTION	REF.	NO. QT
3044710	TRIMMER 4.7K HORIZ. REG. PT10NV	RV40	1
40 7508 5 0423440	5 WAY FEMALE CONNECTOR PRESSACO UTH188 HEXAGONAL SHAFT PHILIPS 822241771060	50 CI	. 1 ·
1234700	CARBON RESISTOR 470E 5% 1/4W	R408	
1241 00 0 1251000	CARBON RESISTOR 1K 5% 1/4W CARBON RESISTOR 10K 5% 1/4W	R406 R204	-
1254700	CARBON RESISTOR 47K 5% 1/4W	R402	
1261000 1261500	CARBON RESISTOR 100K 5% 1/4W CARBON RESISTOR 150K 5% 1/4W	R401 R409	1
0144820	EAST-WEST P.C.B. MTC9000 KK	TD 40	. 1
20400429 24332209	TRANSISTOR BC547 RADIAL ELECT. CAPACITOR 220uF 16V P5	TR40 C404	
24422209	RADIAL ELECT. CAPACITOR 22UF 25V P5	C406	
24614709 25163319	RADIAL ELECT. CAPACITOR 4.7uF 63V P5 FILM CAPACITOR 1.85 330nF 63V 5% P5	C405 C403	
25261009	MYLAR CAPACITOR 100nF 100V 10% P5	C401	-402 2
CONT	ROLS P.C.B. ASSEMBLY	code	62007750
CODE	DESCRIPTION	REF. NO	. QT
21332700	CARBON RESISTOR 270E 5% 1/2W	R116	1
21333300	CARBON RESISTOR 330E 5% 1/2W	R117	1
2 304 100 9 2 3044 710	SEALED TRIMMER 1K HORIZ, REG. PT15NV SEALED TRIMMER 4.7K HORIZ, REG. PT10NV	RV3 RV1	ן 1
23051013	SEALED TRIMMER 10K HORIZ, REG, PT10NV	RV4-	5-6 3
23062207	SEALED TRIMMER 220K HORIZ, REG. PT10NV 11 WAY FEMALE CONNECTOR PRESSACO UTH16	RV2 862 CG	. 1
34075095 34075290	POLARIZATION KEY 12/3768	ooz UG	1
50144830	CONTROLS P.C.B. MTC8000 CG		Ī
50423430 50423440	SHAFT PT15 RADIOHM P15 L14 D6 HEXAGONAL SHAFT PHILIPS 822241771060		1
			_
	DESCRIPTION AND SENAN SUNGS 200702/1	REF. NO.	
34020002 34023404 53870120 91000120	AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 4 F 280581 YELLOW LABEL 7X5 M.O.C.F.	ner. No.	1
34020002 34023404 3870120 11000120	AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 4 F 280581 YELLOW LABEL 7X5 M.O.C.F.	code	61000140
34020002 14023404 13870120 11000120	AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 4 F 280581 YELLOW LABEL 7X5 M.O.C.F.		· 4 1 1
34020002 34023404 53870120 31000120	AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 4 F 280581 YELLOW LABEL 7X5 M.O.C.F. ALS INPUT WIRING ASSY DESCRIPTION AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 6 F 280582	code	61000140
SIGN A	AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 4 F 280581 YELLOW LABEL 7X5 M.O.C.F. ALS INPUT WIRING ASSY DESCRIPTION AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 6 F 280582 YELLOW LABEL 7X5	code	61000140 QTN
SIGN A	AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 4 F 280581 YELLOW LABEL 7X5 M.O.C.F. ALS INPUT WIRING ASSY DESCRIPTION AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 6 F 280582 YELLOW LABEL 7X5	code REF. NO.	61000140 QTN
SIGN 2 0020002 14023404 13870120 1000120 000E	AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 4 F 280581 YELLOW LABEL 7X5 M.O.C.F. ALS INPUT WIRING ASSY DESCRIPTION AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 6 F 280582 YELLOW LABEL 7X5	code REF. NO.	61000140 QTN
34020002 34023404 33870120 31000120 31000120 34020002 34023406 33870120 31000140	AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 4 F 280581 YELLOW LABEL 7X5 M.O.C.F. ALS INPUT WIRING ASSY DESCRIPTION AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 6 F 280582 YELLOW LABEL 7X5 M.O.C.F.	code REF. NO.	61000140 QTA
SIGNA 34020002 34023404 33870120 31000120 34020002 34023406 3870120 31000140 YOKE	AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 4 F 280581 YELLOW LABEL 7X5 M.O.C.F. ALS INPUT WIRING ASSY DESCRIPTION AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 6 F 280582 YELLOW LABEL 7X5 M.O.C.F. WIRING ASSEMBLY	code	61000140 QTA 51 1
34020002 34023404 33870120 31000120 34020002 34023406 33870120 31000140 YOKE	AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 4 F 280581 YELLOW LABEL 7X5 M.O.C.F. ALS INPUT WIRING ASSY DESCRIPTION AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 6 F 280592 YELLOW LABEL 7X5 M.O.C.F. WIRING ASSEMBLY DESCRIPTION AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 6 F 280582	code REF. NO.	61000140 QTA 51 1
34020002 34023404 33870120 31000120 34020002 34023406 33870120 31000140 YOKE 34020002 34023406 31001070	AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 4 F 280581 VELLOW LABEL 7X5 M.O.C.F. ALS INPUT WIRING ASSY DESCRIPTION AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 6 F 280582 YELLOW LABEL 7X5 M.O.C.F. WIRING ASSEMBLY DESCRIPTION AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 6 F 280582 M.O.C.F.	code REF. NO.	61000140 QTA 61001070 QTA 611
#020002 #023404 #023406 #020002 #023406 #020002 #023406 #000140 DEGA	AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 4 F 280581 YELLOW LABEL 7X5 M.O.C.F. ALS INPUT WIRING ASSY DESCRIPTION AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 6 F 280582 YELLOW LABEL 7X5 M.O.C.F. WIRING ASSEMBLY DESCRIPTION AMP FEMALE LUGS 280702/1 AMP CONNECTOR MOD. I 6 F 280582 M.O.C.F. USSING COIL ASSY 20"	code REF. NO.	61000140 QTA 61004200 62005130

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CRT	MAINFRAME	ACCV C) 	anda	6200849	2
		ABBI 2	20			
CODE	DESCRIPTION			REF. NC).	QTY
40114016	CAP SCREW M4x7 Zn				-	4
40942095	SELF TAPPING SCREW					8
40963016 42000010	SELF TAPPING SCREW WASHER UNI 6593-69					4
50111210	RIGHT LEG x 20" MAIN		1			1
50111220 50111230	LEFT LEG x 20" MAINF CENTRAL LEG x 20" M/		1443			1 1
50111240	BASE PLATE x 20" MAI	NFRAME UTH	140			1
50111450 53874750	CRT NECK REINFORCII X RAY LABEL MTC900		1999			1
						-
CRT	MAINFRAME	ASSY 1	6"	code	62003720)
CODE	DESCRIPTION			REF. NO) . (9TY
l ——						
50111380 50111360	CENTRAL LEG x 16" RIGHT LEG x 16"			•		1
50111370	LEFT LEG x 16"				•	1
50111390	BASE PLATE x16"					
CRT	MAINFRAME	ACCV 1	4 H	0040	60000707	-1
		nooi 14	±		62003700	
CODE	DESCRIPTION	<u> </u>		REF. NC), (QTΥ
50111160	LEG x 14" MAINFRAME					
50111200	BASE PLATE 14"	•				i
,	•					
					•	
				<u> </u>		
CD	T ASSEMBLY	2011	code		22002050	
		20	code		32008050	
CODE	DESCRIPTION			REF. NO		<u> </u>
20810029	COT OO' C D ODION OO	MOEOCOLOB	A E 1 - 407V			
208 (0028	CRT 20" S.R. ORION OR 510UDB22 TCXX	VIDEOCOLOR	A31-42/X			1
43000030	SPRING FOR CRT GRO		• •			1
43000070 43000080			· · · · · - -			2 2
50420645						1
53873710 53873770	LABEL FOR CRT 20" OF LABEL FOR CRT, MAIN		ING VG UT2	63	•	}
53873780 53874790	ADVERTISING LABEL		4			
61001070		11210				!
0,00,00	YOKE WIRING ASSEM		JR 20" UTC1	13		
61001080	YOKE WIRING ASSEM WIRING ASSEMBLY M	BLY MTC900/EI TC900/EUR UTC	118			1
	YOKE WIRING ASSEM	BLY MTC900/EI TC900/EUR UTC	118			1 1 1
61001080	YOKE WIRING ASSEM WIRING ASSEMBLY M	BLY MTC900/EI TC900/EUR UTC	118		•	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
61001080	YOKE WIRING ASSEM WIRING ASSEMBLY M	BLY MTC900/EI TC900/EUR UTC	118			1 1 1
61001080 61002250	YOKE WIRING ASSEM WIRING ASSEMBLY M GROUNDING BRAIDED	BLY MTC900/EI TC900/EUR UTC WIRE ASSY M	118	UTC239	e000776/	1 1 1
61001080 61002250	YOKE WIRING ASSEM WIRING ASSEMBLY M	BLY MTC900/EI TC900/EUR UTC WIRE ASSY M	118	UTC239	62007760	
61001080 61002250	YOKE WIRING ASSEM WIRING ASSEMBLY M GROUNDING BRAIDED	BLY MTC900/EI TC900/EUR UTC WIRE ASSY M	118	UTC239) TY
61001080 61002250 PAC	YOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M	C118 TC900E 20" (code		aTY
PAC CODE 52422010 52422010	YOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURET	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M BLY THANE BOX 20 U	UTH1913 TH1914	code		
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010	YOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURET	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U 00 20" EUR, UTH	UTH1913 TH1914 H926 ROPA	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U TO 20" EUR. UTC TT MTC9000 EU	UTH1913 TH1914 I1926 ROPA	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 U TO 20" EUR, UTH TT MTC9000 EU	UTH1913 TH1914 I1926 ROPA	code		2
PAC CODE 52422010 52422010 52824800	VOKE WIRING ASSEMELY M WIRING ASSEMBLY M GROUNDING BRAIDED KING ASSEME DESCRIPTION RIGHT SIDE POLYURET LEFT SIDE POLYURETI- PACKING BOX MTC800	BLY MTC900/ER TC900/EUR UTC WIRE ASSY M THANE BOX 20 HANE BOX 20 U TO 20" EUR. UTH TT MTC9000 EU	UTH1913 TH1914 I1926 ROPA	code		2





ADJUSTMENTS DIAGRAM

